

VILLAGE OF HOOSICK FALLS

Municipal Building
24 Main Street

Mayor Laura J. Reynolds
Deputy Mayor Edward J. Gorman

Hoosick Falls, New York 12090

Phone: (518) 686-7072
Fax: (518) 686-4902
Email: village@cserv.net

Trustees:

Mary Bradley
Marie O'Neil
Jules Coleman
Walt Callahan
Brian Dooley

October 28, 2002

Luke J. Drumm, Process Engineer
McCaffrey Street
Saint-Gobain Performance Plastics
Hoosick Falls, NY 12090

RE: Request to Discharge Process Rinse Water

Dear Mr. Drumm:

The Village has reviewed the wastewater sample results and the MSDS sheet for Diglyme as submitted by Saint-Gobain with our engineer. The Village is concerned about the detection of Diglyme in the wastewater discharge because it is a flammable and hazardous substance.

Since this process wastewater had been discharged into the Village sewer system previously and had no known negative affects, the Village requests that Saint-Gobain proceed with starting up this process by optimizing the existing pretreatment system and frequent monitoring of the process wastewater.

During start-up of this production process, a minimum of two grab samples per week shall be collected and analyzed for pH, COD, Fluoride and Diglyme. For each sample collected, provide the wastewater flow rate at the time the sample was collected and how long the process was used on that day.

Additionally, for every sample collected at the discharge source, collect and analyze for Diglyme at a sanitary sewer down stream of the production facility. The Village will meet with you to identify the manhole that will be used for monitoring the presence of Diglyme.

The Village looks forward to working with Saint-Gobain to establish a permanent discharge agreement for the facility. Please advise us of any difficulties that this sampling program may cause, and we will work with you to resolve them.

Sincerely,

A handwritten signature in black ink, appearing to read "Laura J. Reynolds". The signature is fluid and cursive, with the first name "Laura" being more prominent and the last name "Reynolds" following in a similar style.

Laura J. Reynolds, Mayor

cc: Robert Flores, Clough Harbour



Generator Approval Notification

December 3, 2002

Customer: TONAWANDA ENVIRON. CORP.

Fax: (716) 877-0227

LUKE DRUMM
ST GOBAIN PERFORMANCE PLASTICS
14 MCCAFFERY ST
HOOSIC FALLS, NY 12090

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

EQ FACILITY: Michigan Disposal Waste Treatment Plant (MID000724831)
49350 North I-94 Service Drive, Belleville, Michigan 48111

Approval Number: 120202BAB

Generator EPA ID #: NYD000829958 Approved Container: DRUM Expires On: 12/3/2003

Waste Common Name: CARBON FILTER/MEDIA

Comments:

Primary Waste Code: SLUD

The Approval(s) listed above are based upon characterization information supplied to EQ by the Customer and the generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the generator. The Customer must notify the EQ Resource Team immediately upon knowledge of any changes to this information. This Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the attached Standard Terms and Conditions.

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

**If you have any questions, please call us toll free at
1-800-592-5489**

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EQ Resource Recovery, Inc.

an  company

Generator Approval Notification

November 22, 2002

Customer: TONAWANDA ENVIRON. CORP.

Fax: (716) 877-0227

LUKE DRUMM
ST. GOBAIN PERFORMANCE PLASTICS
14 MCCAFFREY STREET
HOOSIER FALLS, NY 12090

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

EQ FACILITY: EQ Resource Recovery, Inc. (MID060975844)
36345 Van Born Road, Romulus, Michigan 48174

Approval Number: K56602-OTS

Generator EPA ID #: NYD060829958

Approved Container: DRUM Expires On: 11/22/2003

Waste Common Name: DiGlyme Waste

Comments:

Primary Waste Code: D001

The Approval(s) listed above are based upon characterization information supplied to EQRR by the Customer and the generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the generator. The Customer must notify the EQRR Approvals Department immediately upon knowledge of any changes to this information. This Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the attached Standard Terms and Conditions.

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQRR on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

**If you have any questions, please call us toll free at
1-800-521-0998**

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January 20, 1997

To: Ed Scheytt, Mark Merrell, PJ Beaumont, Gerry Surdam, Herk Fredrickson, John Reagan, Dick Lenyk, Paul Napoli

From: Ken Lenseth

Subject: Punch List from Etcher Relocation

Key: WO- Work Order
OC- Outside Contractor

<i>WHAT</i>	<i>WHO</i>	<i>WHEN</i>	<i>STATUS</i>
Redesign Clean-up Process Procedure & Handling Waste (reduce formation of NaOH during clean-up)	Paul/Ken/John	1/6/98	
Computer & Phone Line	Ken- OC	1/30/98	
Panic Call from Etcher Mix Room to QC Lab	Ken- OC	2/13/98	
Duct Fresh Air to Hot Water Heater	Ken- OC	2/13/98	
Lag Stand for Drain Pipe to Floor	WO		
Label Valves	WO		
Label Gauges	Ken		
Label Filters Housings for Draining Procedure & Filter Element Part #	Ken		
Salt for Softner	WO		
Insulate H2O Lines, Feed & Drain	Ken- OC		
Install Fresh Air Make-up System	Ken- OC		
Test pH Daily of Waste Rinse Water for 3 weeks	Paul- Operator		
Test Incoming H2O & Waste H2O Pre/Post Carbon	John/Ken		
Replace N2 Meters	Paul		
Re-engineer duct exhaust register locations/ drip legs	Ken- WPS		
Install Registers in Duct Work	Ken- OC		
Install Final Exhaust Stack	Ken- OC		
Label Electrical Panels	Ken- OC		
Remove Explosion Lighting, Install 12 HO Fluorescent Fixtures, (enables better product inspection)	Ken- OC		
Relocate Eye Wash/Shower	Ken- OC		
After Exhaust & Make-up Air Duct Work Completion have Contractor Balance Duct Work to Designed Flow Requirements	Ken- OC		
Update Drawings to Reflect System Changes	Ken- WPS		
Install Safety Signs- Hearing Protection, Na Hazard, Eye Wear, Hot Piping, Caustic Solution, Outdoor signs reflecting Fire Control related To Na, Etc.	John- WO		
Change Out Filter Pressure Gauges on Waste side to 0-30 PSI	Ken		
Change Out Air Bar Pressure Gauges to 0-30 PSI	Ken		
Redesign Air Turn Around Bars to reduce CDA Consumption, (will reduce load on plant air requirements so that the 50 Hp screw can supply needed plant CFM without another compressor on line)	Ken/Paul		
Engineer controls and project cost to monitor critical process parameters and tie back to alarms and web drive.	Ken/Paul		
Label N2, CDA, H2O, Propane and Sewer Lines	Ken		
Remove Handles on Normally Open or Closed Values and Tie Handles to Piping, (Supply valve to Eye wash, Shower, etc)	Ken		
Set Filter Pressure Drop Limits for Changing and Post on Filter Housings	Ken		
Make Guard for Na Storage Room Hydronic Piping	WO		

Furon-Hoosick Falls

[illegible]

GREEN TAG (# 48L001)
FOR
MACHINE AND EQUIPMENT ACCEPTANCE

DO NOT OPERATE UNTIL THIS TAG IS COMPLETED

Type of Machine: Etcher Mfg.: Liberty St. Equip. ID# SPETO1
Mfg. Serial #: N/A Date of Mfg.: N/A Location: Liberty St.
Department: PSAT Project Engineer: Leaseh

1) **INSTALLATION COMPLETED**

This machine has been properly installed and the guards provided have been put in place.

Print Name	Signature	Date
Electrician: <u>OUTSIDE CONTRACTOR</u>	<u>BRADLEY</u>	
Plumber: <u>OUTSIDE CONTRACTOR</u>	<u>Henry Flieg</u>	
Mechanic: <u>CHUCK CARROLL</u>	<u>Chuck Carroll</u>	<u>01-02-98</u>
Machinist: <u>CR/MH</u>	<u>Clifford Fredrickson</u>	<u>01/04/98</u>
Other (Specify): _____		

2) **ELECTRICAL CHECK MAINTENANCE CHECK:**

This machine has been electrically inspected and meets applicable current specifications, codes and standards. *Meets codes assuming hazardous classification has been correctly identified by FM and Project Engineer.*

Project Coordinator/Engineer: [Signature] 1/16/98
Maintenance Coach: _____ (Signature) (Date)

3) **MAINTENANCE CHECK PROJECT DESIGN CHECK:**

This machine has been installed as required by mfg.'s specs and applicable codes and standards and is approved for operation. Both electrical and mechanical functional checks have been performed. *Please see attach. recommendations & punch list for remaining items.*

Maintenance Coach: [Signature] 1/15/98
Project Engineer: _____ (Signature) (Date)

4) **HEALTH, SAFETY & ENVIRONMENT CHECK**

This machine and work station have been inspected for compliance with applicable HS&E codes and standards and is released for operation.

Health, Safety & Env.: [Signature] 1/15/98 *See comments*
(Signature) (Date)

5) **OPERATION ACCEPTANCE**

This machine and workstation is accepted for production.

Manufacturing Leader: [Signature] 1/15/98 *
(Signature) (Date)

When complete, remove this Green Tag with any supporting documentation and return to HS&E.

* with future modification as discussed. Basic machine is operational & safe. mmm

Recommendations:

1/12/98 - System is 90-95% complete. All major and minor system components in place except air make-up unit. Operational checks of entire system turned up one engineering flaw in the rinse hot exhaust design. Air supply under 50HP screw is not capable of total system requirements and rest of building have one auxiliary recip. compressor on line to keep building supply > 90 psig. Will re-engineer/design either air bars to reduce supply or requirements for savings and to run plant off 50HP screw only. See attached punch list for remaining safety items etc.

1/14/98 - Item: that the extinguisher. PM should be established for eyewash & shower. In place. Warning sign for haz waste storage. NFPA diamond would be a good idea for storage of sodium & diethylene glycol. Hearing protection required & safety glasses. Goggles or shield required for mixing.

(5)



10/15/02

M A T E R I A L S A F E T Y D A T A S H E E T

 **Clariant**

CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

DIETHYLENEGLYCOLDIMETHYLETHER

241161

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----- H M I S -----
HEALTH 1 *
FLAMMABILITY 2
REACTIVITY 0
PERSONAL PROTECTION D

0189011-002
9-23-02

SECTION 01 - PRODUCT IDENTIFICATION

TRADE NAME: DIETHYLENEGLYCOLDIMETHYLETHER
PRODUCT CODE: 241161
VERSION NUMBER: 01
ALPHA CODE: NOT AVAILABLE
CAS NUMBER: 111-96-6
SYNONYMS: ETHER, BIS(2-METHOXYETHYL)
CHEMICAL FAMILY: GLYCOL ETHER
FORMULA: C6H14O3
PRIMARY PRODUCT USE: SPECIALTY CHEMICAL

SECTION 02 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT	CAS NO.	WT. %	PEL/TLV
DIETHYLENE GLYCOL DIMETHYLETHER	111-96-6	> 99	NOT ESTABLISHED
GLYCOL ETHERS (SARA 313 CATEGORY), TOTAL GLYETHCMPD		> 99	NOT ESTABLISHED

SECTION 03 - HAZARDS IDENTIFICATION

(REFER TO SECTION 11 FOR ADDITIONAL INFORMATION)
EXPECTED ROUTE OF ENTRY:

SKIN CONTACT: X
SKIN ABSORPTION: X
EYE CONTACT: X
INHALATION: X
INGESTION: X

EFFECTS OF EXPOSURE:

DIETHYLENE GLYCOL DIMETHYLETHER: SLIGHT SKIN AND EYE IRRITANT. BASED ON ANIMAL STUDIES, INHALATION CAUSES NERVOUSNESS, NARROWED EYELIDS, IRREGULAR BREATHING AND BIRTH DEFECTS; INGESTION ALSO CAUSED BIRTH DEFECTS.

GLYCOL ETHERS (SARA 313 CATEGORY), TOTAL: GLYCOL ETHERS INCLUDE MONO- AND DI- ETHERS OF ETHYLENE GLYCOL, DIETHYLENE GLYCOL, AND TRIETHYLENE GLYCOL WHICH ARE REGULATED AS A CHEMICAL CATEGORY UNDER SARA SECTION 313 REGULATIONS. THE HEALTH EFFECTS OF GLYCOL ETHERS VARY WITH THE PARTICULAR GLYCOL ETHER. THESE EFFECTS MAY INCLUDE IRRITATION TO THE

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SECTION 03 - HAZARDS IDENTIFICATION

(CONT.)

SKIN, EYES, RESPIRATORY TRACT, AND MUCOUS MEMBRANES. THEY MAY INCLUDE EFFECTS ON THE REPRODUCTIVE SYSTEM, INCLUDING REDUCTION OF SPERM COUNT OR BIRTH DEFECTS.

KNOWN EFFECTS ON OTHER ILLNESSES:

NO KNOWN EFFECTS ON OTHER ILLNESSES FOR THIS PRODUCT.

LISTED CARCINOGEN:

NONE: X
OSHA:
NTP:
IARC:
OTHER:

SECTION 04 - FIRST AID MEASURES

FIRST AID FOR EYES:

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, HOLDING LIDS APART TO ENSURE FLUSHING OF THE ENTIRE SURFACE. WASHING EYES WITHIN 1 MINUTE IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. SEEK MEDICAL ATTENTION IMMEDIATELY.

FIRST AID FOR SKIN:

THOROUGHLY FLUSH SKIN WITH PLENTY OF WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. IF SKIN IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

FIRST AID FOR INHALATION:

GET VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING HAS STOPPED. GET PROMPT MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF VICTIM IS UNCONSCIOUS.

FIRST AID FOR INGESTION:

INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN:

NONE KNOWN

SECTION 05 - FIRE FIGHTING MEASURES

FLASH POINT (°F): 124

FLAMMABLE LIMITS:

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SECTION 05 - FIRE FIGHTING MEASURES

(CONT.)

LEL: 1.4 %VOL

UEL: UNKNOWN

AUTOIGNITION TEMPERATURE ('F): 374

HAZARDOUS COMBUSTION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON.

EXTINGUISHING MEDIA:

WATER:

ALCOHOL FOAM: X

CO2: X

DRY CHEMICAL: X

WATER/FOG SPRAY: X

NO EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN SPILL. SPILLS SHOULD BE COLLECTED AS A LIQUID OR ABSORBED ON SUITABLE ABSORBANT AND PLACED IN PROPER CONTAINERS FOR DISPOSAL. DO NOT DISCHARGE INTO STORM DRAINS OR THE AQUATIC ENVIRONMENT.

SECTION 07 - HANDLING AND STORAGE

HANDLING AND STORAGE INFORMATION:

STORE IN ORIGINAL CONTAINERS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. AVOID CONTACT WITH AIR OR MOISTURE. KEEP AWAY FROM HEAT, SPARKS, FLAMES, AND OTHER IGNITION SOURCES. STORE IN A COOL, DRY, WELL VENTILATED AREA SEPARATE FROM OXIDIZERS AND ACIDS. USE NON-SPARKING TOOLS. ALWAYS BOND AND GROUND CONTAINERS BEFORE TRANSFERRING THE PRODUCT. OBSERVE ALL NECESSARY PRECAUTIONS FOR HANDLING FLAMMABLE LIQUIDS.

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SECTION 07 - HANDLING AND STORAGE

(CONT.)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

IF AIRBORNE CONCENTRATIONS POSE A HEALTH HAZARD, BECOME IRRITATING
OR EXCEED RECOMMENDED LIMITS, USE A NIOSH APPROVED RESPIRATOR IN ACCORDANCE
WITH OSHA RESPIRATORY PROTECTION REQUIREMENTS UNDER 29 CFR 1910.134

PROTECTIVE GLOVES:

BUTYL RUBBER

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE EQUIPMENT:

WEAR CLOTHING SUITABLE TO PREVENT SKIN CONTACT. HAVE EYEWASH FOUNTAIN AND
SAFETY SHOWER AVAILABLE IN THE WORK AREA.

VENTILATION:

LOCAL VENTILATION RECOMMENDED - MECHANICAL VENTILATION MAY BE USED.

EXPOSURE LIMITS:

NONE ON PRODUCT

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):

NOT DETERMINED

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: COLORLESS LIQUID WITH WEAK ODOR

ODOR THRESHOLD: NOT AVAILABLE

PH (% IN WATER): NEUTRAL

SOLUBILITY IN WATER: MISCIBLE

SPECIFIC GRAVITY: 0.94 AT 68 F

BOILING POINT ('F): 322

MELTING POINT ('F): NOT AVAILABLE

FREEZING POINT ('F): NOT AVAILABLE

VAPOR PRESSURE(MM HG): 1.7 AT 68 F

VAPOR DENSITY (AIR=1): NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

LOSS ON DRYING(%): NOT AVAILABLE

VOC(EPA METHOD 24/24A): NOT AVAILABLE

OCTANOL/WATER PARTITION COEFFICIENT: -0.36 (LITERATURE VALUE)

SECTION 10 - STABILITY AND REACTIVITY

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SECTION 10 - STABILITY AND REACTIVITY

(CONT.)

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY: ACIDS, ALKALIS, STRONG OXIDIZING AGENTS

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50 (ORAL-RAT): 4760 MG/KG BODY WEIGHT

DERMAL IRRITATION-RABBIT: SLIGHTLY IRRITATING

EYE IRRITATION-RABBIT: SLIGHTLY IRRITATING

SECTION 12 - ECOLOGICAL INFORMATION

BIOLOGICAL ELIMINATION:

31

% ANALYSIS:

METHOD: OECD NO. 302 B

AQUATIC TOXICITY:

SPECIES: NONE

LC100: NONE

MG/L TIME: H

SPECIES: NONE

LC 50: NONE

MG/L TIME: H

SPECIES: NONE

LC 0: NONE

MG/L TIME: H

BACTERIAL INHIBITION:

NO INHIBITION (MG/L): NOT DETERMINED

50% INHIBITION (MG/L): NOT DETERMINED

BIOCHEMICAL OXYGEN DEMAND (BOD5-MG/L): NOT AVAILABLE

CHEMICAL OXYGEN DEMAND (COD-MG/L): NOT AVAILABLE

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION:

RECOMMENDED DISPOSAL IS BY INCINERATION IN APPROVED FACILITIES.

RCRA HAZARDOUS WASTE: YES - IF IT BECOMES A WASTE AS SOLD.

RCRA #: D001

FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS

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SECTION 14 - TRANSPORT INFORMATION

(CONT.)

DOT REGULATED: YES

RQ MET AT: NONE

UN/NA NUMBER : UN3271

PACKING GROUP: III

HAZARD CLASSIFICATION: 3

FLAMMABLE AND COMBUSTIBLE LIQUID

SUBSIDIARY RISK 1: NONE

SUBSIDIARY RISK 2: NONE

POISON INHALATION: NO

HAZARD ZONE: NONE

MARINE POLLUTANT: NO

DOT LABEL(S) REQUIRED: FLAMMABLE LIQUID

NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO.: 127

SHIPPING NAME: ETHERS, N.O.S. (DIETHYLENE GLYCOL DIMETHYL
ETHER)

DOT REGULATED BULK ONLY: NO

CANADIAN TRANSPORT REGULATION: NOT DETERMINED

INTERNATIONAL AIR TRANSPORTATION REGULATIONS:

UN/NA NUMBER: UN3271

PACKING GROUP: III

HAZARD CLASS/DIVISION: 3 FLAMMABLE AND COMBUSTIBLE LIQUID

SUBSIDIARY RISK 1: NONE

SUBSIDIARY RISK 2: NONE

PASSENGER AIRCRAFT FORBIDDEN: NO

SHIPPING NAME: ETHERS, N.O.S. (DIETHYLENE GLYCOL DIMETHYL
ETHER)

INTERNATIONAL MARITIME DANGEROUS GOODS REGULATION:

UN/NA NUMBER: UN3271

PACKING GROUP: III

HAZARD CLASS/DIVISION: 3 FLAMMABLE AND COMBUSTIBLE LIQUID

SUBSIDIARY RISK 1: NONE

SUBSIDIARY RISK 2: NONE

MARINE POLLUTANT: NO

PAGE/AMENDMENT#:

SHIPPING NAME: ETHERS, N.O.S. (DIETHYLENE GLYCOL DIMETHYL
ETHER)

SECTION 15 - REGULATORY INFORMATION

MATERIAL SAFETY DATA SHEET

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SECTION 15 - REGULATORY INFORMATION

(CONT.)

TSCA: WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER
REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.

SARA (SECTION 311/312):

REACTIVE HAZARD: N
PRESSURE HAZARD: N
FIRE HAZARD: Y
IMMEDIATE/ACUTE: N
DELAYED/CHRONIC: Y

SARA (SECTION 302):

CONTAINS AN EXTREMELY HAZARDOUS SUBSTANCE: N

SARA (SECTION 313 - TOXIC CHEMICAL):

THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING
REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-
TO-KNOW ACT OF 1986 AND 40 CFR 372. ANY SUCH TOXIC CHEMICAL(S) ARE SHOWN
IN SECTION 02 OF THIS MSDS. THIS INFORMATION MUST BE INCLUDED IN ALL
MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

CLEAN WATER ACT - PRIORITY POLLUTANTS:

CONTAINS NO KNOWN PRIORITY POLLUTANTS AT CONCENTRATIONS GREATER THAN 0.1%.

CLEAN AIR ACT - VOLATILE ORGANIC COMPOUNDS:

VOC (EPA METHOD 24/24A): NOT AVAILABLE
LOSS ON DRYING (%): NOT AVAILABLE

CERCLA REGULATED COMPONENTS (AS LISTED IN SECTION 2):

COMPONENT	CAS NO.	WT. %	RQ (LB)
DIETHYLENE GLYCOL DIMETHYLETHER	111-96-6	> 99	NO RQ
GLYCOL ETHERS (SARA 313 CATEGORY), TOTAL GLYETHCMPD		> 99	NO RQ

RCRA HAZARDOUS WASTE: YES - IF IT BECOMES A WASTE AS SOLD.

RCRA #: D001

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FDA

USDA: THIS PRODUCT IS NOT REGISTERED WITH THE USDA

CEPA: LISTED AS PRIORITY SUBSTANCE: NOT DETERMINED

LISTED AS TOXIC SUBSTANCE: NOT DETERMINED

EXPORT IS NOTIFIABLE: NOT DETERMINED

LISTED ON DSL: NOT DETERMINED

LISTED ON NDSL: NOT DETERMINED

CEPA STATUS:

PRODUCT NOT YET EVALUATED

M A T E R I A L S A F E T Y D A T A S H E E T



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CLARIANT Corporation: (704) 331-7000

SECTION 16 - OTHER INFORMATION

(CONT.)

PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY. +

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN, SEEK
MEDICAL ATTENTION.

IN CASE OF FIRE, USE WATER SPRAY (FOG), MULTI-PURPOSE FOAM, DRY CHEMICAL,
OR CARBON DIOXIDE.

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE,
HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT.

THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW"
REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH AS TYPICAL
VALUES AND NOT AS A PRODUCT SPECIFICATION. THE INFORMATION CONTAINED
HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE
AND ACCURATE.

NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA,
THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE
OBTAINED FROM THE USE THEREOF, IS MADE. CLARIANT CORPORATION ASSUMES
NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT
DESCRIBED HEREIN.

CLARIANT CORPORATION



Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333



003 301 2A0 0105037-0105037 10/0

SAINT GOBAIN PPL
1 LIBERTY STREET
LIBERTY STREET PLANT
HOOSICK FALLS NY 12090

SAINT GOBAIN PPL
1 LIBERTY STREET
HOOSICK FALLS NY 12090

ASHLAND PRODUCT NAME: DIETHYLENE GLYCOL DIMETHYL ETH FERRO
DATA SHEET NO: 0189011-002.001 SUPPLIER:
INVOICE: 0916389 MATERIAL: 3270020 400 OLS
LATEST REVISION DATE: 09/23/02 INVOICE DATE: 10/03/02

PAGE 001

M A T E R I A L S A F E T Y D A T A S H E E T



Page: 8

CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

DIETHYLENEGLYCOLDIMETHYLETHER

241161

VERSION: 01 REVISED DATE: 09/11/2002

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 15 - REGULATORY INFORMATION

(CONT.)

WHMIS: NOT EVALUATED

SECTION 16 - OTHER INFORMATION

OTHER PRECAUTIONS:

OBSERVE ALL NECESSARY PRECAUTIONS FOR HANDLING FLAMMABLE LIQUIDS. KEEP AWAY FROM SOURCES OF HEAT AND IGNITION. SMOKING SHOULD BE PROHIBITED WHERE MATERIAL IS BEING HANDLED. TAKE PRECAUTIONARY MEASURES AGAINST ELECTROSTATIC LOADING.

STATE REGULATORY INFORMATION:

PENNSYLVANIA: AS NOTED PER SECTION 2.

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN ABOVE IN SECTION 2 OF THIS MSDS. NON-HAZARDOUS COMPONENTS ARE BEING WITHHELD AS TRADE SECRET INFORMATION.

LABEL INFORMATION:

LABEL HAZARDS:

WARNING!

FLAMMABLE LIQUID AND VAPOR.

CAUTION!

CONTAINS GLYCOL ETHERS. MAY HAVE EFFECTS ON REPRODUCTIVE SYSTEM, INCLUDING REDUCTION OF SPERM COUNT AND BIRTH DEFECTS.

LABEL PRECAUTIONS:

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE VENTILATION AND/OR RESPIRATORY PROTECTION IN ORDER TO KEEP EXPOSURE BELOW TLV VALUES. WASH THOROUGHLY AFTER HANDLING.

FIRST AID:

EYE CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT A PHYSICIAN IF IRRITATION CONTINUES. WASH CLOTHING BEFORE REUSE.

INGESTION: INDUCE THE PATIENT TO VOMIT OF HIS OWN ACCORD ONLY IF FULLY CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate
Flammability Rating: 2 - Moderate
Reactivity Rating: 0 - None
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES; LAB COAT
Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:

Inhalation of dust or vapors can cause headache, nausea, vomiting, extensive sweating, and disorientation. The predominant reaction is delayed intravascular hemolysis with symptoms of anemia, fever, jaundice, and kidney or liver damage.

Ingestion:

Toxic. Can cause headache, profuse perspiration, listlessness, dark urine, nausea, vomiting and disorientation. Intravascular hemolysis may also occur with symptoms similar to those noted for inhalation. Severe cases may produce coma with or without convulsions. Death may result from renal failure.

Skin Contact:

Can irritate the skin and, on prolonged contact, may cause rashes and allergy.

"Sensitized" individuals may suffer a severe dermatitis.

Eye Contact:

Vapors and solid causes irritation, redness and pain. Very high exposures can damage the nerves of the eye.

Chronic Exposure:

Has led to cataract formation in eyes. May cause skin allergy.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin, blood or vascular disorders or impaired respiratory function may be more susceptible to the effects of the substance. Particularly susceptible individuals are found in the general population, most commonly in dark skinned races.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Webster, Sally A.

From: Canning, Edward J.
Sent: Thursday, November 06, 2003 3:43 PM
To: Hyde, Kevin P.
Cc: Paul Beaumont; Mona El Eris; Brant Bottum; Acquista, Charles; John Hayden; Sally Webster; Frederickson, Clifford
Subject: Ventilation Issues in the Etch Department
Importance: High

Kevin,

As we discussed yesterday, the second shift operator in the etch department (Louise) reported a possible correlation between dermatological problems she is experiencing and the chemicals she is working with in etch. While the employee in question has a history of allergy problems (to various agents), we should take steps immediately to minimize possible exposure to various agents that are present.

As a precautionary measure we had discussed two short term actions that should substantially improve air quality in the etch room. After discussing with you, Herk, Charlie and PJ it was agreed that the following would be addressed right away.

- 1.) The room air makeup unit apparently is not operating properly . Herk said he would call a HVAC contractor to rectify - this should be done immediately.
- 2.) A ventilation "drop" should be installed by Monday to collect vapors emitted from the nitrogen purge vent on the "Toto".

Please let me know by Monday where this issues stand.

Thanks in advance.

Ed

11/7/2003

Webster, Sally A.

From: Hyde, Kevin P.
Sent: Thursday, November 06, 2003 3:54 PM
To: Canning, Edward J.
Cc: Beaumont, Paul J.; El Eris, Mona C.; Bottum, Brant J.; Acquista, Charles; Hayden, John J.; Webster, Sally A.; Frederickson, Clifford
Subject: RE: Ventilation Issues in the Etch Department

The air make-up unit was repaired today... I'll inform Louise. The ventilation drop will be completed Monday. Kevin

-----Original Message-----

From: Canning, Edward J.
Sent: Thursday, November 06, 2003 3:43 PM
To: Hyde, Kevin P.
Cc: Paul Beaumont; Mona El Eris; Brant Bottum; Acquista, Charles; John Hayden; Sally Webster; Frederickson, Clifford
Subject: Ventilation Issues in the Etch Department
Importance: High

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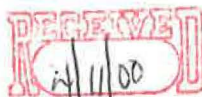
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Please let me know by Monday where this issues stand.

Thanks in advance.

Ed

ANSULANSUL INCORPORATED
MARINETTE, WI 54143-2542**MATERIAL SAFETY DATA SHEET****MET-L-X**

QUICK IDENTIFIER (In Plant Common Name)

Manufacturer's Name:	ANSUL INCORPORATED	Emergency Telephone No.:	CHEMTREC (800) 424-9300
Address:	One Stanton Street, Marinette, WI 54143-2542	Other Information Calls:	Same (715) 735-7411
Prepared By:	Safety and Health Department	Date Prepared:	January 12, 1996

SECTION 1 — IDENTITY

Common Name: (used on label) (Trade Name and Synonyms)	MET-L-X Dry Powder Extinguishing Agent	CAS No.:	N/A
Chemical Name:	N/A This is a Mixture	Chemical Family:	Mixture
Formula:	N/A		

SECTION 2 — INGREDIENTS

PART A — HAZARDOUS INGREDIENTS				
Principal Hazardous Component(s) (chemical and common name(s)):	Wt. %	CAS No.	ACGIH TLV	Acute Toxicity Data
Saran	5-8	9010-76-8	N/A	NDA
Magnesium Aluminum Silicate (Attapulgate Clay)	4-7	8031-18-3	10 mg/M3	NDA
PART B — OTHER INGREDIENTS				
Other Component(s) (chemical and common name(s)):	Wt. %	CAS No.		Acute Toxicity Data
Proprietary Mixtures of:	83-88	7647-14-5		Oral LD50 (rat) 3000 mg/kg
Sodium Chloride				
Magnesium Stearate	<3	557-04-0		NDA

SECTION 3 — PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire and Explosion Data)

Boiling Point:	N/A	Specific Gravity (H ₂ O = 1):	N/A	Vapor Pressure (mm Hg):	N/A
Percent Volatile by Volume (%):	N/A	Vapor Density (Air = 1):	N/A	Evaporation Rate (= 1):	N/A
Solubility in Water:	Slight	Reactivity in Water:	Unreactive		
Appearance and Odor:	White colored powder, no characteristic odor				
Flash Point:	None	Flammable Limits in Air % by Volume:	N/A	Extinguisher Media:	N/A
				Auto-ignition Temperature:	N/A
Special Fire Fighting Procedures:	NONE — THIS IS AN EXTINGUISHING AGENT				
Unusual Fire and Explosion Hazards:	None				

SECTION 4 — PHYSICAL HAZARDS

Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	Violent reaction with BrF ₃ , Li		
Hazardous Decomposition Products:	Possibly traces of HCl		
Polymerization:	Will Not Occur <input checked="" type="checkbox"/> May Occur <input type="checkbox"/>	Conditions to Avoid:	N/A

SECTION 5 — HEALTH HAZARDS

MET-L-X (continued)

Threshold Limit Value:	OSHA nuisance dust limit of 15 mg/M ³ or ACGIH nuisance dust value of 10 mg/M ³ for the eight hour time-weighted average.			
Routes of Entry: Eye Contact:	Mildly irritating for a short period of time.			
Skin Contact:	May be mildly irritating.			
Inhalation:	Not expected with normal use.			
Ingestion:	Ingestion of large amounts can cause irritation of the stomach.			
Signs and Symptoms:	Acute Overexposure: None expected with single exposure. Chronic Overexposure: None known			
Medical Conditions Generally Aggravated by Exposure:	N/A			
Chemical Listed as Carcinogen or Potential:	National Toxicology Program:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

SECTION 6 — EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Flush with large amounts of water; if irritation persists, seek Medical attention.
Skin Contact:	Wash with soap and water; if irritation persists, seek Medical attention.
Inhalation:	Remove victim to fresh air. Seek Medical attention if discomfort continues.
Ingestion:	If patient is conscious, give large amounts of water and induce vomiting. Seek Medical help.

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):	None required.		
Ventilation:	Local Exhaust:	Discretionary	Mechanical (General): Recommended
Protective Gloves:	N/A	Eye Protection:	Recommended as mechanical barrier for prolonged exposure.
Other Protective Clothing or Equipment:	If irritation occurs, long sleeves and impervious gloves should be worn.		

SECTION 8 — SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage:	Should be stored in original container or Ansul fire extinguisher.
Other Precautions:	Do not mix agents.
Steps to be Taken in Case Material is Released or Spilled:	Sweep up.
Waste Disposal Methods:	Dispose of in compliance with local, state, and federal regulations.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

HAZARD INDEX:	
4 Severe Hazard	<u>1</u> HEALTH
3 Serious Hazard	<u>0</u> FLAMMABILITY
2 Moderate Hazard	<u>0</u> REACTIVITY
1 Slight Hazard	
0 Minimal Hazard	

N/A = Not Applicable NDA = No Data Available

ANSUL and MET-L-X are registered trademarks.



Sodium Naphthalene

UN1391 Class 4.3

100 Thompson Street
Pittston, PA 18640 USA
Phone: (717) 654-0612
Fax: (717) 654-2810

MATERIAL SAFETY DATA SHEET

SECTION 1		PRODUCT IDENTIFICATION		HAZARD RATING	
PRODUCT NAME: Sodium Naphthalene MANUFACTURER'S NAME: Acton Technologies, Inc. CHEMICAL FAMILY: Alkali Metal (sodium) / Organic (naphthalene) FORMULA: NaC ₁₀ H ₈		HEALTH 3	FIRE 3	REACTIVITY 2	OTHER
SECTION 2		HAZARDOUS INGREDIENTS			
INGREDIENT	C.A.S. NUMBER	% WEIGHT	TLV (UNITS)		
Naphthalene	91-20-3	84.7	10 PPM (In Air)		
Sodium Metal	7440-23-5	15.3	none established		
SECTION 3		PHYSICAL DATA			
DESCRIPTION: At room temperature, this product is a gray solid dispersion containing an equimolar mixture of sodium and naphthalene. The complex has the odor of naphthalene. Physical data for each of the components is listed below:					
		<u>Sodium</u>	<u>Naphthalene</u>		
MELTING POINT:		98° C (208° F)	80° C (176° F)		
BOILING POINT:		892° C (1,638° F)	218° C (424° F)		
VAPOR PRESSURE: (mmHg)		1 at 440° C (824° F)	0.05 at 20° C (68° F)		
SOLUBILITY IN WATER:		Reacts with water	Insoluble		
SPECIFIC GRAVITY:		0.97	1.145		
SECTION 4		FIRE AND EXPLOSION HAZARD DATA			
FLASHPOINT: 176° F (C ₁₀ H ₈). EXTINGUISHING MEDIA: Powdered limestone and nitrogen propelled dry powder. Do not use water, soda acid, dry chemical, CO ₂ or foam. BEHAVIOR IN FIRE: Accidental contact with H ₂ O used to extinguish surrounding fire will result in the release of hydrogen gas and possible explosion.					
SECTION 5		HEALTH HAZARD DATA			
PERMISSIBLE EXPOSURE DATA: None established. Threshold limit value for naphthalene is 70 PPM. EFFECTS OF OVEREXPOSURE: Skin contact may cause alkali burn					

Sodium Naphthalene
UN1391 Class 4.3

SECTION 6	FIRST AID MEASURES
Immediately flush skin with copious quantities of water for at least 15 minutes; preferably under a deluge shower. Obtain professional medical help for eye exposures.	
SECTION 7	REACTIVITY DATA
STABILITY: Stable CONDITION TO AVOID: Avoid exposure to high humidity and moisture. Keep in air tight container. INCOMPATIBLE WITH: Water. Oxidizing materials. HAZARDOUS DECOMPOSITION: Hydrogen in the presence of moisture. Sodium Oxide fumes when heated in air. HAZARDOUS POLYMERIZATION: Will Not Occur.	
SECTION 8	SPILL, LEAK AND DISPOSAL PROCEDURES
SPILLS, LEAKS: Shovel or scoop into dry metal container. DISPOSAL: Comply with Local, State, and Federal Environmental Regulations.	
SECTION 9	SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION: If excess of TLV, use NIOSH/MESA self contained breathing apparatus. VENTILATION: Provide adequate ventilation. PROTECTIVE GLOVES: Neoprene or Polyvinyl Chloride PROTECTIVE CLOTHING: Wear impervious clothing and boots. Wear impervious apron. EYE PROTECTION: Wear Splash Goggles and 8" Face Shield.	
SECTION 10	SPECIAL PRECAUTIONS AND COMMENTS
STORAGE AND HANDLING INFORMATION: Do not store with acids or organic solvents. Keep containers tightly closed when not in use. Avoid excessive heat and contact with water. Store in dry area. Handle only with dry equipment. PERSONAL PROTECTIVE EQUIPMENT:: EYE PROTECTION - Wear face shield RESPIRATORY PROTECTION - Use with adequate ventilation. SKIN PROTECTION - Wear rubber gloves and flame-proof clothing when handling. PROPER D.O.T. SHIPPING DESCRIPTION: Flammable Solid and Dangerous When Wet	
NOTICE	
This data is furnished gratuitously, independent of any sale of the product, and only for your independent investigation and verification. While this data is believed to be correct, Acton makes no representation as to the accuracy of the data. Acton makes no warranties, guaranties or representations of any kind or nature with respect to this product or to this data, either expressed or implied, and whether arising by law or otherwise, including but not limited to any implied warranty of merchantability or fitness for any particular purpose. Acton shall in no event be liable for any personal injury, property or other damages of any nature whatsoever, whether special, indirect, consequential or compensatory, directly or indirectly resulting from the publication or use or of reliance upon this data.	